

Figure 3: Magnetic puncture plots (top) and equi-spaced ion fluid velocity flow contours (bottom) for three ratios of the equilibrium ion to electron pressure p_i/p_e , for the same total β , at t=85.8 ($p_i/p_e=1$ at t=76.2). Similar to early flow pattern.

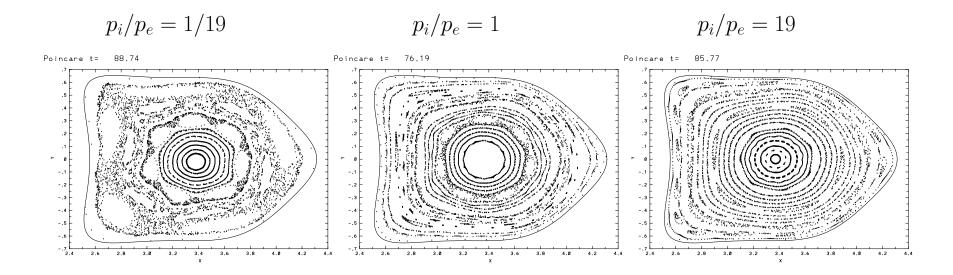


Figure 5: Magnetic puncture plots for the long-time two-fluid cases of Fig. 5 at $\beta = 7\%$. Magnetic reconnection at interior low-order rational surfaces is enhanced by the electron 2F terms.

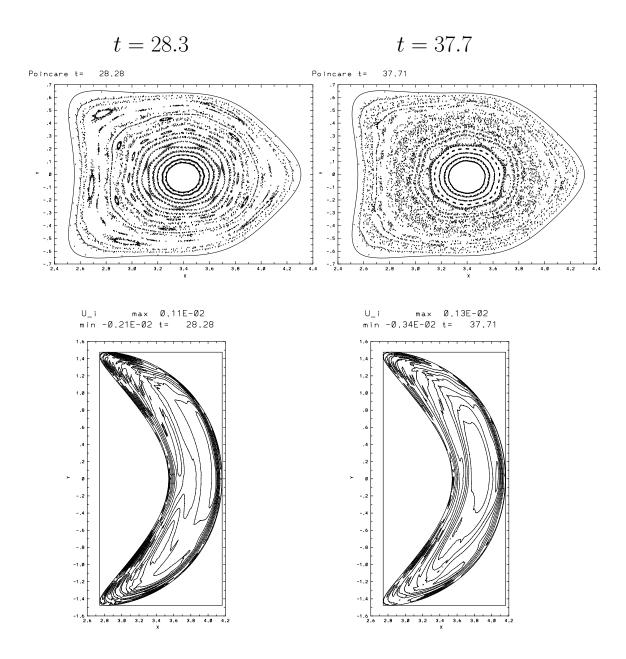


Figure 6: Two-fluid island growth increases with beta, shown for $\beta = 8\%$, $p_i = p_e$. Ballooning is ideal MHD unstable, but the mode grows more slowly than the two-fluid islands at low-order rational surfaces and is not visible here.